

Team 5 Summary

The problem our team was tasked with solving was ensuring that patients take their vital prescriptions on time. This is currently done through live calls with doctors which is a waste of valuable clinical time. Our solution was to build a website for patients, pharmacies, and doctors to manage every aspect of prescriptions. In our solution, prescriptions are dispensed with an extra QR code that the patient can scan to upload their mandatory videos. The advantage of this is that patients can be reminded to upload their videos and doctors can watch them back in their own time. We can also use computer vision to make sure the uploaded videos are actually of people taking their prescriptions and flag videos if they aren't. The system can also automatically detect conflicts between drugs if a patient has been prescribed conflicting medications and we provide a drug interactions checker for patients, pharmacies, and doctors to make use of. As part of this project we worked in collaboration with QRX, a start-up out of Trinity that has recently received Launchbox funding and is building a similar system that uses QR codes to manage every aspect of prescriptions.

We have handed over our work to QRX and deployed web services for them to make use of. Our repository is also public on GitHub for anyone else to make use of in the future at <https://github.com/DarrenKitching/RegX>.